

## COMMENTS ON THE NOMENCLATORIAL STATUS OF THE FAMILIES CAUCASELLIDAE AND FAVUSELLIDAE (FORAMINIFERIDA)

Richard W. Huddleston

*Abstract.*—The taxonomic nomenclature of the foraminiferal families CaucaseLLidae and FavuseLLidae is examined. The nomenclatorial complexities and status of the genera *Caucasella* Longoria, 1974, *Polskanella* Fuchs, 1973, and *Globuligerina* Bignot and Guyader, 1971 are reviewed in relation to the rules of the International Code of Zoological Nomenclature.

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Bignot and Guyader (1971) established *Globuligerina* as a new subgenus of *Globigerina* d'Orbigny, 1826, designating *Globigerina oxfordiana* Grigelis, 1958, emend. Bignot and Guyader, 1967, emend. Bignot and Guyader, 1971 as the type-species. Fuchs (1973) considered *Globigerina oxfordiana* Grigelis, 1958 *sensu* Bignot and Guyader 1967 and 1971 to represent a distinct form from *Globigerina oxfordiana* Grigelis, 1958. Fuchs (1973) designated *Globigerina oxfordiana* Grigelis, 1958 as the type-species of *Polskanella* Fuchs, 1973, and selected *Globuligerina frequens* Fuchs, 1973 as a "replacement" type-species for *Globuligerina*. Grigelis and Gorbachik (1980:184) criticized Fuchs (1973) and commented, "In as much as the type of a taxon indicated in accordance with the ICZN [International Code of Zoological Nomenclature] regulations is not subject to replacement, Fuchs' choice of a new type species for the genus *Globuligerina* is illegal, and *Polskanella* as a genus based on an already used type species should be assigned to younger objective synonyms of *Globuligerina* (ICZN, 1966, p. 35 article 61b)."

The significant fact that has been overlooked is that Bignot and Guyader (1971) specifically designated *Globigerina oxfordiana* Grigelis, 1958 emend. Bignot and Guyader 1967, emend. 1971, and not *Globigerina oxfordiana* Grigelis, 1958. Bignot and Guyader (1971) are considered to have established a new nominal species, with the same specific name as the misidentified species, in the new nominal genus, *Globuligerina* (ICZN, Article 70(b)i). Therefore, the type-species of *Globuligerina* is to be cited as *Globuligerina oxfordiana* Bignot and Guyader, 1971 (ICZN, Article 70b).

The specific name *Globuligerina oxfordiana* Bignot and Guyader, 1971 cannot be retained for the species used as the type-species of *Globuligerina* (ICZN, Article 49). I, herein, propose the new species *Globuligerina conflicta* for the specimens currently identified as *Globuligerina oxfordiana* Bignot and Guyader (= *Globigerina oxfordiana* Grigelis *sensu* Bignot and Guyader not *G. oxfordiana* Grigelis). Whether or not *Globigerina oxfordiana* Grigelis or *Globuligerina conflicta* is the type-species of *Globuligerina* is a matter that can be resolved only by the International Commission on Zoological Nomenclature (ICZN, Article 70a).

*Polskanella* Fuchs complicates the problem. This genus may be a junior objective synonym of *Globuligerina* (ICZN, Article 61b) if the Commission rules *Globigerina oxfordiana* Grigelis as the type-species of *Globuligerina*. However, if the Commission rules *Globuligerina conflicta* as the type-species of *Globuligerina*, then *Polskanella* would be firmly established.

Fuchs' (1973) designation of *Globuligerina frequens* Fuchs as the new type-species of *Globuligerina* has no standing since *G. frequens* is distinct from *Globuligerina oxfordiana* Grigelis *sensu* Bignot and Guyader.

Longoria (1974) established two families, Caucasellidae (type-genus *Caucasella* Longoria, 1974) and Favusellidae (type-genus *Favusella* Michael, 1972). Longoria (1974) designated *Globigerina hauterivica* Subbotina, as the type-species of *Caucasella* and included 6 other species within this genus, including *Globigerina oxfordiana*. The generic descriptions and included species of *Caucasella* and *Globuligerina* are nearly identical and these genera were considered congeneric by Grigelis and Gorbachik (1980). Grigelis and Gorbachik (1980) placed *Globuligerina* within the Favusellidae, rendering Caucasellidae a junior synonym of Favusellidae.

The name *Caucasella* previously was used by Moisseev (1934) as a genus of Jurassic brachiopod. *Caucasella* Longoria is a junior homonym which renders the family Caucasellidae Longoria invalid (ICZN, Article 39). A new name (*nomen novum*) for *Caucasella* Longoria is not necessary due to its status as a junior synonym, and is replaced with the oldest available synonym (ICZN, Article 60a). The oldest available synonym to replace *Caucasella* Longoria would be *Polskanella* if *Polskanella* and *Globuligerina* are held distinct. However, if *Polskanella* and *Globuligerina* are viewed congeneric, then *Globuligerina* would be the replacement name for *Caucasella*.

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Chevron Oil Field Research Company, P.O. Box 446 La Habra, California 90631. (Present address: Scientific Research Systems 11044 McGirk, El Monte, California 91731.)